

Firestone Building Products Company

Material Safety Data Sheet

May 20, 2010

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SECTION 1: PRODUCT IDENTIFICATION

Product Name:	UltraFlash Primer
Chemical Name / Synonym:	Organosilane adhesion promoter in isopropyl alcohol solution
Chemical Family:	Alcohol
24-Hour Emergency Phone:	(800) 424-9300 CHEMTREC
Manufacturer's Name:	Firestone Building Products Company
Manufacturer's Address:	250 West 96 th Street, Indianapolis, IN 46260
NFPA Hazard Rating:	Health 1, Flammability 3, Reactivity 0
HMIS Hazard Rating:	Health 1, Flammability 3, Reactivity 0

SECTION 2: CHEMICAL COMPOSITION

Chemical Name:	Common Name:	CAS #:	% (by wt)	Exposure Limits:
2-Propanol	Isopropanol	67-63-0	>99	PEL 400 ppm TLV 200 ppm TLV-STEL 400 ppm

SECTION 3: HAZARD IDENTIFICATION

Primary Route of Exposure:	Inhalation, skin, eyes
Signs and Symptoms of Exposure:	Eye contact may cause eye irritation, redness, tearing and blurred vision. Prolonged or repeated skin contact may cause irritation, dermatitis and drying of the skin. Excessive inhalation may cause responses such as headache, dizziness, muscular weakness, fatigue and nausea. May ultimately cause unconsciousness. While unlikely to occur during normal use, ingestion can cause central nervous system effects (dizziness, fatigue, lightheadedness) and gastrointestinal irritation (nausea, vomiting, diarrhea). The LC ₅₀ (rat) for isopropanol is 19,000 ppm (males) and 22,500 ppm (females).
Medical Conditions Aggravated by Exposure:	Pre-existing lung, skin, eye, pulmonary, nervous system disorders, kidney disorders and renal disorders may be aggravated by exposure to this material.
Chronic Effects:	Impaired kidney function and renal disease have been noted in laboratory animals following long term, high exposures to isopropanol.
Carcinogenicity:	Isopropanol is listed by IARC as a class 3, <i>unclassifiable as to carcinogenicity in humans</i> , and listed by ACGIH as an A4, <i>not classifiable as a human carcinogen</i> .

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SECTION 4: FIRST AID MEASURES

First Aid Procedures:	If this material contacts the eyes, hold eyelids open and flush immediately with a gentle stream of water for at least 15 minutes, preferably at an eyewash fountain. Get medical attention. In case of skin contact, wash affected area with soap and water. In case of inhalation, remove to fresh uncontaminated air. Administer oxygen if breathing is labored. Give artificial respiration if breathing has stopped. Get medical attention immediately if oxygen or artificial respiration are administered. In case of accidental ingestion, do not induce vomiting. Get medical attention, advise the physician of the nature of the material, and follow their instructions.
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SECTION 5: FIRE FIGHTING PROCEDURES

Suitable Extinguishing Media:	Carbon dioxide, dry chemical, or alcohol foam. Do not use a direct stream of water. Water spray/fog may be used for cooling.
Hazardous Combustion Products:	In the event of partial combustion, carbon monoxide may be released. Normal combustion products include carbon dioxide and water vapor.
Recommended Fire Fighting Procedures:	Wear impermeable protective clothing and self-contained breathing apparatus.
Unusual Fire and Explosion Hazards:	Heat builds up pressure in closed containers. Cool with water stream.

SECTION 6: PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled:	Remove ignition sources. Absorb on inert material. Use non-sparking tools. Place in secure containers for disposal.
Precautions to Be Taken in Handling and Storing:	Keep away from heat, sparks, and open flames. Keep containers closed. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations near containers. Static electricity may accumulate and create a fire hazard. Ground fixed equipment. Bond and ground all transfer containers and equipment.

SECTION 7: EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation:	Use in a well-ventilated location.
Respiratory Protection:	If personal exposure concentrations cannot be maintained below the appropriate exposure limits using engineering controls, a NIOSH approved air purifying respirator may be appropriate based on employer-determined exposure levels. Air supplied or SCBA respirators may be required when the measured chemical concentration exceeds the capacity of the air purifying respirator or when personal exposure levels are unknown.

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Eye Protection:	Based upon end-user evaluation and determination, the use of safety glasses with side shields or chemical splash goggles may be warranted when using this product,
Skin Protection:	Wear nitrile or neoprene gloves for direct handling of product.
Other:	Not required.
Work / Hygienic Practices:	Wash exposed skin prior to eating, drinking and smoking and at the end of each work shift. Wash contaminated clothing prior to reuse.

SECTION 8: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor:	Clear liquid with rubbing alcohol odor.		
Flash Point:	53° F	Lower Explosive Limit:	2%
Method Used:	TCC	Upper Explosive Limit:	12%
Evaporation Rate:	7.7 (Ethyl Ether=1)	Boiling Point:	180°F
pH (undiluted product):	Unknown	Melting Point:	Not Applicable
Solubility in Water:	Completely miscible	Specific Gravity:	0.78 (Water=1)
Vapor Density:	2 (Air=1)	Percent Volatile:	>99
Vapor Pressure:	44 mm Hg @ 77° F		

SECTION 9: STABILITY AND REACTIVITY

Thermal Stability:	Stable
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Avoid flames, sparks or other sources of ignition. May react with strong oxidizing agents. Do not use with aluminum equipment at temperatures above 120°F.

SECTION 10: TRANSPORTATION

Regulatory Agency:	U.S.A., DOT, IMO
Proper Shipping Name:	Isopropanol
Hazard Classification:	3
Identification Number:	UN1219
Packing Group:	II
Labels Required:	Flammable
Other Requirements:	None known.

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SECTION 11: MISCELLANEOUS INFORMATION

Additional Comments:	None.
Date of Previous MSDS:	Not applicable. New product.
Changes Since Previous MSDS:	Not applicable
Telephone Number for Additional Information:	(317) 575-7190

DISCLAIMER

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